



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
SECOND YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE WILDLIFE
MANAGEMENT**

COURSE CODE: WRM 2103

COURSE TITLE: INTRODUCTION TO ECOLOGY

DATE: 3RD DECEMBER, 2018

TIME: 0830 – 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section A and any other **THREE** in section B.

This paper consists of 2 printed pages. Please turn over

Section A: (Answer all questions in this section 25 Marks)

1. Define the following terms **(5 marks)**
 - a) Ecology
 - b) Synecology
 - c) Ecotone
 - d) Biodiversity
 - e) Population
2. Briefly discuss characteristics of a population **(5 marks)**
3. Name and explain **levels of organization** in ecology **(5 marks)**
4. Briefly explain the **trophic level and energy flow** in ecology **(5 marks)**
5. Differentiate between Keystone species and flagship species **(5 marks)**

SECTION B: ANSWER THREE (3) QUESTIONS ONLY (45 Marks)

6. Using examples Discuss how ecological succession takes place in an ecosystem **(15 marks)**
7. Using examples where necessary, discuss the Nitrogen cycle **(15 marks)**
8. Discuss different types of biotic interactions of organisms in an ecosystem **(15 marks)**
9. Discuss why and how some species in the ecosystem are ecological indicators **(15 marks)**

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